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RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/777,789

DATE: 08/30/2004
TIME: 14:51:54

Input Set : N:\Crf3\RULE60\10777789.raw.txt
Output Set: N:\CRF4\08302004\J777789.raw

1 <110> APPLICANT: Oppmann, Birgit
 2 Timans, Jacqueline C.
 3 Kastelein, Robert A.
 4 Bazan, J. Fernando
 5 <120> TITLE OF INVENTION: Mammalian Cytokines; Related Reagents and Methods
 6 <130> FILE REFERENCE: DX0935K
 7 <140> CURRENT APPLICATION NUMBER: US/10/777,789
 8 <141> CURRENT FILING DATE: 2004-02-11
 9 <150> PRIOR APPLICATION NUMBER: US/09/521,335
 10 <151> PRIOR FILING DATE: 2000-03-09
 11 <160> NUMBER OF SEQ ID NOS: 13
 12 <170> SOFTWARE: PatentIn Ver. 2.0
 14 <210> SEQ ID NO: 1
 15 <211> LENGTH: 1790
 16 <212> TYPE: DNA
 17 <213> ORGANISM: primate
 18 <220> FEATURE:
 19 <221> NAME/KEY: CDS
 20 <222> LOCATION: (162)..(806)
 21 <220> FEATURE:
 22 <221> NAME/KEY: mat_peptide
 23 <222> LOCATION: (213)..(806)
 24 <400> SEQUENCE: 1
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 26 cccggctcg ccctcccact ccgccagcct ccgggagagg agccgcaccc ggccggcccg 120
 27 gccccagccc catggacctc cgagcagggg actcgtgggg g atg tta gcg tgc ctg 176
 Met Leu Ala Cys Leu
 28 -15
 29 tgc acg gtg ctc tgg cac ctc cct gca gtg cca gct ctc aat cgc aca 224
 31 Cys Thr Val Leu Trp His Leu Pro Ala Val Pro Ala Leu Asn Arg Thr
 32 -10 -5 -1 1
 33 ggg gac cca ggg cct ggc ccc tcc atc cag aaa acc tat gac ctc acc 272
 34 Gly Asp Pro Gly Pro Gly Pro Ser Ile Gln Lys Thr Tyr Asp Leu Thr
 35 5 10 15 20
 36 cgc tac ctg gag cac caa ctc cgc agc ttg gct ggg acc tat ctg aac 320
 37 Arg Tyr Leu Glu His Gln Leu Arg Ser Leu Ala Gly Thr Tyr Leu Asn
 38 25 30 35
 39 tac ctg ggc ccc cct ttc aac gag cca gac ttc aac cct ccc cgc ctg 368
 40 Tyr Leu Gly Pro Pro Phe Asn Glu Pro Asp Phe Asn Pro Pro Arg Leu
 41 40 45 50
 42 ggg gca gag act ctg ccc agg gcc act gtt gac ttg gag gtg tgg cga 416
 43 Gly Ala Glu Thr Leu Pro Arg Ala Thr Val Asp Leu Glu Val Trp Arg
 44 55 60 65

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45 agc ctc aat gac aaa ctg cg^g ctg acc cag aac tac gag gcc tac agc 464
 46 Ser Leu Asn Asp Lys Leu Arg Leu Thr Gln Asn Tyr Glu Ala Tyr Ser
 47 70 75 80
 48 cac ctt ctg tgt tac ttg cgt ggc ctc aac cgt cag gct gcc act got 512
 49 His Leu Leu Cys Tyr Leu Arg Gly Leu Asn Arg Gln Ala Ala Thr Ala
 50 85 90 95 100
 51 gag ctg cgc cgc agc ctg gcc cac ttc tgc acc agc ctc cag ggc ctg 560
 52 Glu Leu Arg Arg Ser Leu Ala His Phe Cys Thr Ser Leu Gln Gly Leu
 53 105 110 115
 54 ctg ggc agc att gcg ggc gtc atg gca gct ctg ggc tac cca ctg ccc 608
 55 Leu Gly Ser Ile Ala Gly Val Met Ala Ala Leu Gly Tyr Pro Leu Pro
 56 120 125 130
 57 cag ccg ctg cct ggg act gaa ccc act tgg act cct ggc cct gcc cac 656
 58 Gln Pro Leu Pro Gly Thr Glu Pro Thr Trp Thr Pro Gly Pro Ala His
 59 135 140 145
 60 agt gac ttc ctc cag aag atg gac gac ttc tgg ctg ctg aag gag ctg 704
 61 Ser Asp Phe Leu Gln Lys Met Asp Asp Phe Trp Leu Leu Lys Glu Leu
 62 150 155 160
 63 cag acc tgg ctg tgg cgc tcg gcc aag gac ttc aac cgg ctc aag aag 752
 64 Gln Thr Trp Leu Trp Arg Ser Ala Lys Asp Phe Asn Arg Leu Lys Lys
 65 165 170 175 180
 66 aag atg cag cct cca gca gct gca gtc acc ctg cac ctg ggg gct cat 800
 67 Lys Met Gln Pro Pro Ala Ala Ala Val Thr Leu His Leu Gly Ala His
 68 185 190 195
 69 ggc ttc tgacttctga ccttctcctc ttgcgtcccc cttcaaacc cgtcccaact 856
 70 Gly Phe
 72 ttgtgagagc cagccctgta tgccaacacc tggtgagcca ggagacagaa gctgtgagcc 916
 73 tctggccctt tcctggaccc gctggcg^t tgatgcata agccctgtct cctcccccacc 976
 74 tcccaaagg^t ctaccgagct ggggaggagg tacagtaggc cctgtcctgt cctgtttcta 1036
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 78 gccccactct cttggatgg gtgttgctcc cttatcccc aatactcta tacatccaa^t 1276
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 80 tggggtctgc attggaggtg ccctataaaac cagaagagaa aataactgaaa gcacaggggc 1396
 81 agggacagac cagaccagac ccaggagtct ccaaagcaca gagtggcaaa caaaacccga 1456
 82 gctgagcatc aggaccttgc ctcgaattgt cttccagat tacgg^tgcct cttctctgcc 1516
 83 cccttccca gggtatctgt ggg^tgcccag gctggggagg gcaaccatag ccacaccaca 1576
 84 ggatttcctg aaagtttaca atgcagtagc atttgggg^t gttaggg^tggc agctccccaa 1636
 85 ggcctgccc cccagccca cccactcatg actctaagt^t tg^tgttatta atatttattt 1696
 86 atttggagat gttatttattt agatgatatt tattgcagaa tttctattct t^tgttattaaca 1756
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 90 <211> LENGTH: 215
 91 <212> TYPE: PRT
 92 <213> ORGANISM: primate
 93 <400> SEQUENCE: 2
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 95 -15 -10 -5

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96 Ala Leu Asn Arg Thr Gly Asp Pro Gly Pro Gly Pro Ser Ile Gln Lys
97 -1 1 5 10 15
98 Thr Tyr Asp Leu Thr Arg Tyr Leu Glu His Gln Leu Arg Ser Leu Ala
99 20 25 30
100 Gly Thr Tyr Leu Asn Tyr Leu Gly Pro Pro Phe Asn Glu Pro Asp Phe
101 35 40 45
102 Asn Pro Pro Arg Leu Gly Ala Glu Thr Leu Pro Arg Ala Thr Val Asp
103 50 55 60
104 Leu Glu Val Trp Arg Ser Leu Asn Asp Lys Leu Arg Leu Thr Gln Asn
105 65 70 75
106 Tyr Glu Ala Tyr Ser His Leu Leu Cys Tyr Leu Arg Gly Leu Asn Arg
107 80 85 90 95
108 Gln Ala Ala Thr Ala Glu Leu Arg Arg Ser Leu Ala His Phe Cys Thr
109 100 105 110
110 Ser Leu Gln Gly Leu Leu Gly Ser Ile Ala Gly Val Met Ala Ala Leu
111 115 120 125
112 Gly Tyr Pro Leu Pro Gln Pro Leu Pro Gly Thr Glu Pro Thr Trp Thr
113 130 135 140
114 Pro Gly Pro Ala His Ser Asp Phe Leu Gln Lys Met Asp Asp Phe Trp
115 145 150 155
116 Leu Leu Lys Glu Leu Gln Thr Trp Leu Trp Arg Ser Ala Lys Asp Phe
117 160 165 170 175
118 Asn Arg Leu Lys Lys Met Gln Pro Pro Ala Ala Ala Val Thr Leu
119 180 185 190
120 His Leu Gly Ala His Gly Phe
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123 <210> SEQ ID NO: 3

124 <211> LENGTH: 648

125 <212> TYPE: DNA

126 <213> ORGANISM: primate

127 <220> FEATURE:

128 <221> NAME/KEY: CDS

129 <222> LOCATION: (1)..(645)

130 <220> FEATURE:

131 <221> NAME/KEY: mat_peptide

132 <222> LOCATION: (52)..(645)

133 <400> SEQUENCE: 3

134 atg tta gct tgc cta tgc acg gtg ctg tgg cac ctc cct gca gtg cca	48
135 Met Leu Ala Cys Leu Cys Thr Val Leu Trp His Leu Pro Ala Val Pro	
136 -15 -10 -5	
137 gct ctt aat cgc aca gga gat cca ggc cct ggc ccc tcc atc cag aaa	96
138 Ala Leu Asn Arg Thr Gly Asp Pro Gly Pro Gly Pro Ser Ile Gln Lys	
139 -1 1 5 10 15	
140 acc tat gac ctc acc cgc tac ctg gag cat caa ctc cgc agc tta gct	144
141 Thr Tyr Asp Leu Thr Arg Tyr Leu Glu His Gln Leu Arg Ser Leu Ala	
142 20 25 30	
143 ggg acc tac ctg aac tac ctg ggg ccc cct ttc aac gag cct gac ttc	192
144 Gly Thr Tyr Leu Asn Tyr Leu Gly Pro Pro Phe Asn Glu Pro Asp Phe	
145 35 40 45	

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146	aat cct cct cga ctg ggg gca gaa act ctg ccc agg gcc acg gtc aac	240
147	Asn Pro Pro Arg Leu Gly Ala Glu Thr Leu Pro Arg Ala Thr Val Asn	
148	50 55 60	
149	ttg gaa gtg tgg cga agc ctc aat gac agg ctg cgg ctg acc cag aac	288
150	Leu Glu Val Trp Arg Ser Leu Asn Asp Arg Leu Arg Leu Thr Gln Asn	
151	65 70 75	
152	tat gag gcg tac agt cac ctc ctg tgt tac ttg cgt ggc ctc aac cgt	336
153	Tyr Glu Ala Tyr Ser His Leu Leu Cys Tyr Leu Arg Gly Leu Asn Arg	
154	80 85 90 95	
155	cag gct gcc aca gct gaa ctc cga cgt agc ctg gcc cac ttc tgt acc	384
156	Gln Ala Ala Thr Ala Glu Leu Arg Arg Ser Leu Ala His Phe Cys Thr	
157	100 105 110	
158	agc ctc cag ggc ctg ctg ggc agc att gca ggt gtc atg gcg acg ctt	432
159	Ser Leu Gln Gly Leu Leu Gly Ser Ile Ala Gly Val Met Ala Thr Leu	
160	115 120 125	
161	ggc tac cca ctg ccc cag cct ctg cca ggg act gag cca gcc tgg gcc	480
162	Gly Tyr Pro Leu Pro Gln Pro Leu Pro Gly Thr Glu Pro Ala Trp Ala	
163	130 135 140	
164	cct ggc cct gcc cac agt gac ttc ctc cag aag atg gat gac ttc tgg	528
165	Pro Gly Pro Ala His Ser Asp Phe Leu Gln Lys Met Asp Asp Phe Trp	
166	145 150 155	
167	ctg ctg aag gag ctg cag acc tgg cta tgg cgt tca gcc aag gac ttc	576
168	Leu Leu Lys Glu Leu Gln Thr Trp Leu Trp Arg Ser Ala Lys Asp Phe	
169	160 165 170 175	
170	aac cgg ctt aag aag atg cag cct cca gca gct tca gtc acc ctg	624
171	Asn Arg Leu Lys Lys Met Gln Pro Pro Ala Ala Ser Val Thr Leu	
172	180 185 190	
173	cac ttg gag gcc cat ggt ttc tga	648
174	His Leu Glu Ala His Gly Phe	
175	195	
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178	<211> LENGTH: 215	
179	<212> TYPE: PRT	
180	<213> ORGANISM: primate	
181	<400> SEQUENCE: 4	
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183	-15 -10 -5	
184	Ala Leu Asn Arg Thr Gly Asp Pro Gly Pro Gly Pro Ser Ile Gln Lys	
185	-1 1 5 10 15	
186	Thr Tyr Asp Leu Thr Arg Tyr Leu Glu His Gln Leu Arg Ser Leu Ala	
187	20 25 30	
188	Gly Thr Tyr Leu Asn Tyr Leu Gly Pro Pro Phe Asn Glu Pro Asp Phe	
189	35 40 45	
190	Asn Pro Pro Arg Leu Gly Ala Glu Thr Leu Pro Arg Ala Thr Val Asn	
191	50 55 60	
192	Leu Glu Val Trp Arg Ser Leu Asn Asp Arg Leu Arg Leu Thr Gln Asn	
193	65 70 75	
194	Tyr Glu Ala Tyr Ser His Leu Leu Cys Tyr Leu Arg Gly Leu Asn Arg	
195	80 85 90 95	

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196 Gln Ala Ala Thr Ala Glu Leu Arg Arg Ser Leu Ala His Phe Cys Thr
 197 100 105 110
 198 Ser Leu Gln Gly Leu Leu Gly Ser Ile Ala Gly Val Met Ala Thr Leu
 199 115 120 125
 200 Gly Tyr Pro Leu Pro Gln Pro Leu Pro Gly Thr Glu Pro Ala Trp Ala
 201 130 135 140
 202 Pro Gly Pro Ala His Ser Asp Phe Leu Gln Lys Met Asp Asp Phe Trp
 203 145 150 155
 204 Leu Leu Lys Glu Leu Gln Thr Trp Leu Trp Arg Ser Ala Lys Asp Phe
 205 160 165 170 175
 206 Asn Arg Leu Lys Lys Lys Met Gln Pro Pro Ala Ala Ser Val Thr Leu
 207 180 185 190
 208 His Leu Glu Ala His Gly Phe
 209 195
 211 <210> SEQ ID NO: 5
 212 <211> LENGTH: 203
 213 <212> TYPE: PRT
 214 <213> ORGANISM: rodent
 215 <400> SEQUENCE: 5
 216 Met Lys Val Leu Ala Ala Gly Ile Val Pro Leu Leu Leu Val Leu
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 218 His Trp Lys His Gly Ala Gly Ser Pro Leu Pro Ile Thr Pro Val Asn
 219 20 25 30
 220 Ala Thr Cys Ala Ile Arg His Pro Cys His Gly Asn Leu Met Asn Gln
 221 35 40 45
 222 Ile Lys Asn Gln Leu Ala Gln Leu Asn Gly Ser Ala Asn Ala Leu Phe
 223 50 55 60
 224 Ile Ser Tyr Tyr Thr Ala Gln Gly Glu Pro Phe Pro Asn Asn Val Glu
 225 65 70 75 80
 226 Lys Leu Cys Ala Pro Asn Met Thr Asp Phe Pro Ser Phe His Gly Asn
 227 85 90 95
 228 Gly Thr Glu Lys Thr Lys Leu Val Glu Leu Tyr Arg Met Val Ala Tyr
 229 100 105 110
 230 Leu Ser Ala Ser Leu Thr Asn Ile Thr Arg Asp Gln Lys Val Leu Asn
 231 115 120 125
 232 Pro Thr Ala Val Ser Leu Gln Val Lys Leu Asn Ala Thr Ile Asp Val
 233 130 135 140
 234 Met Arg Gly Leu Leu Ser Asn Val Leu Cys Arg Leu Cys Asn Lys Tyr
 235 145 150 155 160
 236 Arg Val Gly His Val Asp Val Pro Pro Val Pro Asp His Ser Asp Lys
 237 165 170 175
 238 Glu Ala Phe Gln Arg Lys Lys Leu Gly Cys Gln Leu Leu Gly Thr Tyr
 239 180 185 190
 240 Lys Gln Val Ile Ser Val Val Val Gln Ala Phe
 241 195 200
 243 <210> SEQ ID NO: 6
 244 <211> LENGTH: 202
 245 <212> TYPE: PRT
 246 <213> ORGANISM: primate

VERIFICATION SUMMARY

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